

The Annual Quality Assurance Report (AQAR) of the IQAC

Name of the Institution : VIDYASAGAR UNIVERSITY

Name of the Head of the Institution : Prof. Swapan Kumar Pramanick

Ph. No. Office : 03222 - 275329

Residence : 03222 - 263202

Mobile : 9434223929

e-mail : vuvc@rediffmail.com

Fax : 03222 - 275329

Name of the IQAC Co-ordinator : Prof. Tanmay Bhattacharya

Ph. No. Office : --

Residence : 03222 - 263844

Mobile : 9434994421

e-mail : tanmaybhattacharya@yahoo.com

Year of Report: 2006-2007

Part A

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

The overall plan for enhancement of the quality during 2006-2007 are mentioned below :

1. To improve the quality of teaching, research and examination. This involves filling up of the vacant position, improvement of infrastructure, including construction of building, enhancing laboratory facilities and introduction of semester system and internal assessment at least in some departments, maintaining the academic calendar and publishing result in time.
2. To encourage faculty members to generate resource by way of submitting research projects and undertaking consultancy and extension activities.
3. To modernize library facilities and to spend more money for purchase of new books and journals.
4. To enhance students amenities and facilities and to encourage students to involve in NSS and other social activities.
5. To upgrade technology and computerization of different section.

6. To introduce MBA (regular), PG Diploma in Mass Communication & Videography, PG Diploma in Library Automation.
7. To extend affiliation to UG Colleges for starting PG Courses.
8. Construction of new buildings.

Part – B

1. Activities reflecting the goals and objectives of the institution.

The University was established with the objectives to meet the divergent needs of the region – ethnic, socio cultural and geographical along with providing the mainstream education.

With the objective of providing the mainstream education the University is opening new departments to provide education in the modern and inter disciplinary subjects like – Biochemistry, Biotechnology, MBA etc.

In order to maintain the quality and standard of the system, examination reforms have been initiated by introducing semester system, internal assessment and continuous evaluation.

Regarding research and development activities the University and its depts. have developed MOUs with a number of research laboratories and outside organizations like NISTADS, MSV laboratories etc.

The university is situated in a backward tribal belt of the state. Our academic depts. are working on the diverse problems of the tribal people and trying to find out the probable solutions. These are rightly reflected in the research papers published by the depts. of Anthropology, Economics, Sociology etc.

The NSS wing is carrying on the programs like AIDS awareness, health awareness, immunization campaign in order to make people aware of real life problems.

2. New academic programmes initiated (UG & PG)

Several new programmes have been initiated as mentioned below:

- i) M.B.A. in regular mode.

- ii) M.Sc. in Biotechnology started as affiliated course at Vidyasagar Institute of Health and Oriental Institute of Science and Technology.
- iii) M.Sc. in Biochemistry started as affiliated course at Vidyasagar Institute of Health and Oriental Institute of Science and Technology.
- iv) M.Sc. in Nutrition and dietetics at VIH.
- v) PG course in Mass Communication and Videography.
- vi) A number of new courses have been initiated by the University under VU-CMC collaborative programmes. These new courses are (a) PG Diploma in Applied Computer Science (b) Diploma in Advance Hardware and Networking Administration and (c) Certificate course in Basic and Advance Java.
- vii) PG programmes in UG colleges.

3. Innovations in Curricular design and transaction

- i) Semester system of examination along with internal assessment has been introduced in the Departments of Microbiology, Physics and Technophysics, Computer Science, Economics, Aquaculture Management and Technology and Bio-Medical Laboratory Science and Management.

4. Inter – Disciplinary programmes started

- i) MBA programme started
- ii) M.Sc. in Biotechnology Started
- iii) M.Sc. in Dietetics and Community Nutrition Management at Vidyasagar Institute of Health.

5. Examination reforms implemented.

- i) Internal assessment system has been introduced in both UG and PG courses. In UG courses 10% and in PG courses 20% marks have been allotted in each paper for internal assessment.

6. Candidates qualified : NET/SET/ GATE etc.

| 2006-07 | | |
|----------------|------|------|
| NET | SLET | GATE |
| 37 | 02 | 28 |

7. Initiatives towards faculty development Programmes.

i) Computer literacy / awareness programme conducted by the computer centre.

| No. of courses conducted | No. of faculty member covered |
|--------------------------|-------------------------------|
| 1 | 17 |

ii) Refresher / Orientation courses attended :

Junior faculty members are regularly attending Refresher / Orientation courses organized by various universities.

8. Total number of seminars / workshops conducted.

Ten seminar / symposia / workshops have been organized by the Departments of Anthropology, Microbiology, Library and Information Science, Philosophy and the Life World, Bengali, Geography & Environment Management and Aquaculture Management & Technology.

9. A. Research Projects Newly Implemented :

| Department | Title of the project | Sponsoring Agency | Amount |
|-------------------------------------|--|-----------------------------------|----------------|
| Anthropology | Assessment of health & nutritional status of tribal children in three border districts of W.B. | ICMR | Rs. 5.70 lakhs |
| Aquaculture Management & Technology | Artificial propagation of mud crab, <i>Scylla serrata</i> in the fibre glass aquaria | Dept. of Environment & Forest, WB | Rs. 5.90 lakhs |
| Geography | A critical analysis of irrational construction, in migration and congestion in Kurseong town – a step towards better management. | UGC | Rs. 5.91 lakhs |
| Microbiology | Studies on the fungal endophytes of some medicinal plants and assessment of their antimicrobial potentials. | UGC | Rs. 9.76 lakhs |
| Zoology | a) Effect of vermicompost produced by indigenous vermitechnology on aquaculture. b) Water quality monitoring of five rivers of W.B. – Kansai, Dwakeswar, Subarnarekha, Shilabati, Rupnarayan. | W.B. Pollution Control Board | Rs. 4.17 lakhs |

9. B. Research Projects Completed :

| Department | Title of the project | Sponsoring Agency | Amount |
|-----------------------------------|--|-------------------|----------------|
| Anthropology | i) Health, nutrition & hormonal assessment of 6-18 years school children, Midnapore district. | UGC | Rs. 5.31 lakhs |
| | ii) Assessment of health & nutritional status of tribal children in there border districts of W.B. | DST W.B. | Rs. 2.71 lakhs |
| | iii) Socio – economic impact assessment of Rural Development Programmes | UGC | Rs. 0.50 lakhs |
| Applied Mathematics | i) Some parallel algorithms on Intersection Graphs. | DST | Rs. 1.92 lakhs |
| Bio-Medical Lab. Sc. & Management | i) Antidiabetic efficacy of <i>Eugenia jambulanium</i> , root extract of <i>Musa paradisiaca</i> leaf and root of <i>Coccinia indica</i> and leaf extract of Agar in Streptozotocin treated albino rats. | UGC | Rs. 8.6 lakhs |

10. Patents generated ; if any :

One patent has been generated by the Dept. of Chemistry

| Name and topic of the patent | Registration no. and date |
|--|----------------------------|
| A thermochromic material based on a supramolecular gel | 1132/KOL/06 dt. 26.10.2006 |

11. New Collaborative Research Programmes :

- i) MOU has been signed between NISTADS and the University for technology upgradation in rural areas involving the rural poor.
- ii) Microbiology Dept. has signed two MOUs
 - a) With MSV Laboratories for production of biofertilizers and biopesticides.
 - b) With Ulysses Pharmaceuticals for quality improvement of Pharma products.
- iii) Aquaculture Management & Technology Dept. has taken initiative for collaboration with Latika Sea Food Products and with Balaji Feed Trades for providing technology and collaboration.

iv) Dept. of Botany and Forestry has been continuing as Nodal Centre for the programme of Eastern Networking on Joint Forest Management funded by SPWD, New Delhi. Two neighbouring states viz. Orissa and Jharkhand are also Covered under this programmes.

12. Research grants receive from various agencies :

| Name of the funding Agency | Department | Amount received |
|--|-------------------------------------|------------------|
| 1. University Grants Commission (UGC) | Microbiology | Rs. 16.67 lakhs. |
| 2. Indian Council of Medical Research (ICMR) | Anthropology | Rs. 5.70 lakhs. |
| 3. Dept. of Environment and Forest, Govt. of West Bengal | Aquaculture Management & Technology | Rs. 5.90 lakhs. |
| 4. Pollution Control Board Govt. of West Bengal. | Zoology | Rs. 4.17 lakhs. |
| 5. University Grants Commission | Geography | Rs. 5.91 lakhs |

13. Details of Research Scholars : (2006-2007) :

| | Arts | Science | Commerce | Total | Male | Female |
|----------------------|------|---------|----------|-------|------|--------|
| Registered for Ph.D. | 13 | 55 | 02 | 70 | 48 | 22 |
| Awarded Ph.D. | 7 | 30 | 02 | 39 | 31 | 08 |

There has been a significant growth in the Ph.D. registration and Ph.D. degree awarded since the last year.

14. Citation Index of faculty members and impact factor :

Faculty members have published research papers in peer reviewed international journals of high citation index and impact factor. Highest impact factor recorded was 2.805. A paper from the Department of Chemistry has been recognized as a “top 25” most cited article from Carbohydrate Research.

15. Honours and awards to the faculty :

Sri Parthasarathi Mukhopadhyay of the Department of Library and Information Science has been selected as “Promising Young Professional” by the International Federation of Library Association.

Dr. Abhijit Guha, Department of Anthropology worked as a ‘Visiting Fellow’ at the Department of Sociology, Delhi School of Economics.

Dr. Joydev Maity, Department of Aquaculture Management & Technology received the Junior Scientist of the year Award from National Environment Science Academy.

16. Internal Resources Generated :

There is a three way internal resource generation

- i) Through tuition fees of self-financing courses
- ii) Through affiliation charges from affiliation of courses in other Institutions.
- iii) Through consultancy.

17. Details of departments getting SAP, COSIST (ASSIST) / DST. FIST, etc. assistance / recognition:

| Name of the department | Fund received under DST (FIST) |
|------------------------|--------------------------------|
| Dept. of Physics | Rs. 60.00 lakhs |
| Dept. of Geography | Rs. 29.50 lakhs |
| Dept. of Zoology | Rs. 09.00 lakhs |

18. Community Services :

It is rendered by NSS wing of the University. This year special emphasis was placed on development of scientific and rational attitudes in the minds of the youth undertaking science related programs. The volunteers have donated 482 units of blood this year.

NSS organized 59 special camping programmes on AIDS awareness, Polio Immunisation, literacy, female foeticide, Thalassemia etc.

Dept. of Zoology and Botany jointly organized training of farmers on vermitechnology.

19. Teachers and officers newly recruited :

Teachers:

| <i>Teachers</i> | <i>Department</i> | <i>Number</i> |
|-----------------|---------------------|---------------|
| Lecturer | Economics | One |
| Lecturer | Anthropology | One |
| Lecturer | Applied Mathematics | One |
| Lecturer | Botany | One |
| Lecturer | Botany | One |
| Lecturer | Physiology | One |
| Total | | Six |

Officers:

Registrar – One
Asstt. Registrar – One

20. Teaching – Non-teaching Ratio :

Teachers : 89

Non-teaching : 152 Ratio : 1:1.7

21. Improvement of Library Services :

- i) The Space of the central Library has been increased.
- ii) In newly constructed third floor a spacious Reading cum Reference room has been provided.
- iii) A book elevator has been installed.
- iv) A Xerox centre within the library has been set up.
- v) Along with computerisation, the library has simultaneously started Digitization Programme.
- vi) Thousands of journals can be accessed on-line free of cost. On-line materials can be accessed from any terminal within the campus.

22. New books / Journals subscribed and their cost :

There has been a significant increase in the amount of money spent for new books and journals. While Rs. 6,49,872/- and Rs.96,635/- were spent for books and journals

respectively during 2005-2006 the amount was Rs. 7,66,613/- and 1,18303 for the same in 2006-2007.

23. Courses in which student Assessment of teachers is introduced and the action taken of student feedback.

Student Assessment of teachers has not been introduced.

24. Unit cost of Education : (2006-2007)

| Unit cost of education including salary | Unit cost of education excluding salary |
|---|---|
| Rs. 40694.00 | Rs.20943.00 |

25. Computerization of administration and the process of admissions and examination results, issue of certifications :

Some sections of the University have already been Computerized like P.G. Secretariat (admission process), examination sections (examination process and examination results) and finance dept; Administration dept. is under process of computerization.

26. Increase in the infrastructural facilities. (2006-2007)

- i) Construction of Replica Science Building has been started in January 2007. With floor space 28000 sq. ft.
- ii) Library Building 3rd floor, Science Building 2nd floor and Sports Complex 1st phase have been completed this year; Women students and staff amenity centre has also been started.

27. Technology upgradation :

- 1) These has been further consolidated in the functioning of the computer centre and UGC – INFONET programme of the University.
- 2) In the Computer centre bandwidth has been extended to 1 MBPS along with broad band facilities to facilitate research & development activities.
- 3) Internet facilities have been extended to 175computers.
- 4) A grant of Rs. 30 lakhs has been received from UGC for the upgradation of computer centre.

28. Computer and Internet access and training to teachers and students.

The University has organized programmes several times in every year to train the teachers, employees and students to make them familiar with the use of computers. In this year the no. of different categories trained is as follows.

| Year | No. of students | No. of teachers | No. of employees |
|---------|-----------------|-----------------|------------------|
| 2006-07 | 95 | 11 | 22 |

29. Financial aid to students.

Students are given financial assistance from the welfare fund in the form of exemption of tuition fees, hostel fee and examination fee. Scholarship is also given to the SC and ST students.

| Year | Full freeship to poor and meritorious students | Half freeship given | Exemption of tuition fee | Amount |
|---------|--|---------------------|--------------------------|-----------|
| 2006-07 | 103 | 176 | 29 | Rs. 18520 |

30. Support from the Alumni Association and its activities.

There is no Alumni Association in general in the University. But in some depts. like Political Science, Economics and Library Science there are Alumni Associations. Alumni meetings are occasionally held along with Annual Reunion.

31. Support from the Parent-Teacher Association and its activities.

There is no parent –Teacher Association in the University.

32. Health Services:

The Medical Unit of the University arranged a health check-up programme amongst the first year students. The Dept. of physiology and Dept. of Bio-Medical Laboratory Science & Management helps in this health check-up programme. In collaboration with NSS unit the Medical Unit organized health awareness and sanitation programmes.

33. Performance in sports activities:

The University organized Inter-College Football, Volleyball and Kho-kho tournaments in the newly developed Sports-Ground of the University. Our football team participated in the East Zone Inter- Varsity Football Tournament and qualified for the All India Tournament. Inter- College and PG Athletic Meet was held during February this year.

Cultural Team of the university succeeded in five cultural events in East Zone Inter-Varsity youth festival held at BIT, Ranchi and qualified in the Group Song event for participation in the National Youth Festival, Madras 2007 and secured the 3rd position.

34. Incentive to Outstanding Spots persons:

There is no system in vogue to give incentives to the outstanding sports persons-in the University except reservation of a few seats during admission.

35. Student Achievements and Awards:

A research scholar of physiology Department has got a scholarship for 3 years in MD Anderson Cancer Research Institute, Texas University, USA. Another scholar of Microbiology Dept. has received First prize for paper presentation at the Annual conference of the Association of Microbiologists in India held in Bhopal. A research scholar of the department of Physiology has won the best paper Award from the poster session of Indian Science Congress 2007.

36. Activities of the Guidance and Counselling cell

There is no such Cell but the Dean of Student Welfare constantly inspires and guides the students.

37. Placement services provided to the students:

In order to assist the students in choosing their career opportunities, a Placement Cell with the Dean of Students Welfare as its convener has been functioning. The Placement Cell organized campus interviews for students. This year the students of MCA, Computer Science and Electronics departments appeared at the campus

interview of IBM and US Technology companies and quite a good number of students have been absorbed by them. This year five more companies have expressed desire to organize campus interviews in our University.

38. Development Programmes for Non-teaching staff.

The Computer Centre of the University organized Computer Awareness and Computer Literacy Programme for non-teaching employees.

| Year | No. of course conducted | No. of employees attended the programme |
|---------|-------------------------|---|
| 2006-07 | 04 | 22 |

39. Best practices of the Institution.

- (i) Faculty members and scholars have 24-hour free access to internet and downloading of e-journals in their respective departments.
- (ii) The campus of the University has been declared as smoking free and plastic free zone.
- (iii) Importance of one time written examination has been reduced by introducing continuous evaluation, seminar presentation and group discussion.
- (iv) The Computer Centre of the University has been providing assistance to affiliated colleges to introduce Networking System and web-based materials.

40. Linkages developed with National / International, Academic / Research bodies.

- i) University has signed a MOU with NISTADS.
- ii) Microbiology department has signed two MOUs with MSV Laboratories and
- iii) Ulysses Pharmaceuticals.
- iv) Aquaculture Management & Technology has been providing technological guidance to Balaji Feed Trades.
- v) Department of Botany has been continuing as a Nodal Centre on Joint Forest Management Programme.

41. Any other Relevant Information.

There has been an increase in the students strength from other states as well as from abroad during this period. While SC, ST & PG students input ratio remained almost same, number of OBC students has slightly increased.

Microbiology, Botany and Zoology has provided 3, 1 and 1 consultancy services generating fund of Rs. 2,30,000.00.

The Department of Applied Mathematics has been monitoring the Automatic Weather Station on collaboration with the University of Calcutta under DST Project.

Prof. T. Bhattacharya took over as Co-ordinator of IQAC on 31.01.2007.

Part C:

Details of the plan of the Institution for the next year.

The following are the plans for the next year 2007-2008.

1. Semester System of examination will be introduced in all the departments.
2. M.Phil Course in Political Science and Environmental Science will be opened.
3. To accommodate the increasing demand for higher education PG programmes will be opened in a few more UG Colleges –
 - i) Chemistry – in Panskura Banamali College and
 - ii) Bengali – in Jhargram Raj College and Rabindra Satabarshiki Mahavidyalaya, Ghatal
4. To extend affiliation of MBA (distance mode) of International Institute of Management Sciences. Uluberia, Howrah.
5. To extend affiliation of MSW of AMIK Institute of Management Sciences, Durgapur, Burdwan.
6. To extend affiliation of Paramedical Courses in Southern Health Improvement Society, South 24 Parganas.
7. To initiate the introduction of student assessment of teachers.

Name & Signature of the Coordinator, IQAC

Name & Signature of the Chairperson, IQAC